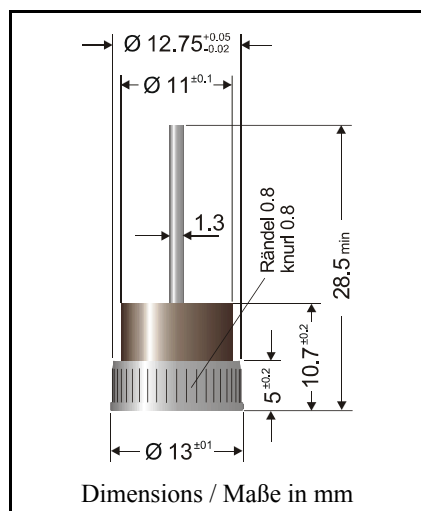


Silicon Press-Fit-Diodes
High-temperature diodes

Silizium-Einpreßdioden
Hochtemperaturdioden



Nominal current – Nennstrom 60 A
 Repetitive peak reverse voltage 50...600 V
 Periodische Spitzensperrspannung
 Metal press-fit case with plastic cover
 Metall-Einpreßgehäuse mit Plastik-Abdeckung
 Weight approx. – Gewicht ca. 10 g
 Casting compound has UL classification 94V-0
 Vergußmasse UL94V-0 klassifiziert
 Standard packaging: bulk
 Standard Lieferform: lose im Karton

Maximum ratings

Grenzwerte

Type / Typ	Wire to / Draht an	Repetitive peak reverse voltage	Surge peak reverse voltage
Anode	Cathode	Periodische Spitzensperrspanng.	Stoßspitzensperrspannung
		V_{RRM} [V]	V_{RSM} [V]
BYP 60A05	BYP 60K05	50	60
BYP 60A1	BYP 60K1	100	120
BYP 60A2	BYP 60K2	200	240
BYP 60A3	BYP 60K3	300	360
BYP 60A4	BYP 60K4	400	480
BYP 60A6	BYP 60K6	600	700

Max. average forward rectified current, R-load $T_C = 150^\circ\text{C}$ I_{FAV} 60 A
 Dauergrenzstrom in Einwegschtung mit R-Last

Repetitive peak forward current $f > 15\text{ Hz}$ I_{FRM} 120 A ¹⁾
 Periodischer Spitzenstrom

Peak forward surge current, 50 / 60 Hz half sine-wave $T_A = 25^\circ\text{C}$ I_{FSM} 450 / 500 A
 Stoßstrom für eine 50 / 60 Hz Sinus-Halbwell

Rating for fusing – Grenzlastintegral, $t < 10\text{ ms}$ $T_A = 25^\circ\text{C}$ i^2t 1000 A²s

Operating junction temperature – Sperrschichttemperatur T_j – 50...+215 °C
 Storage temperature – Lagerungstemperatur T_s – 50...+215 °C

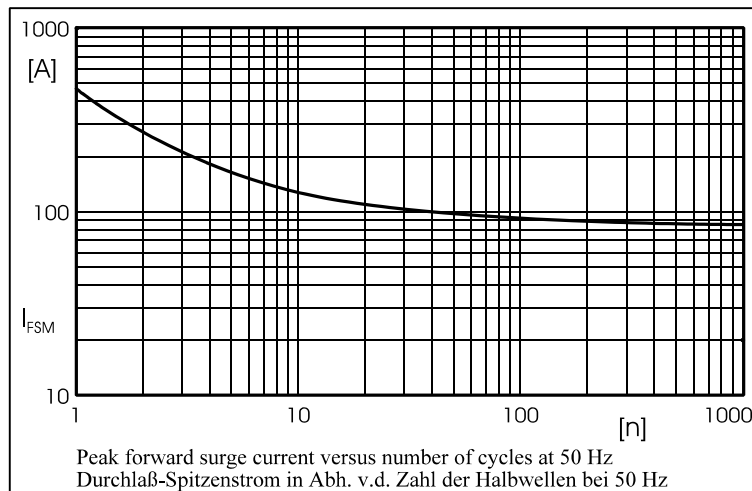
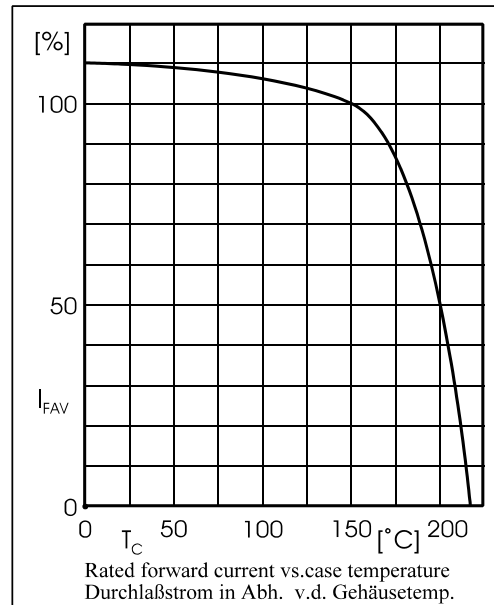
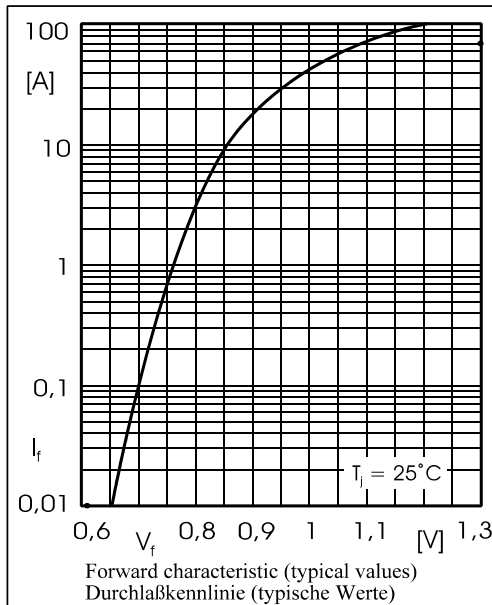
Maximum pressure – Maximaler Einpreßdruck 7 kN

¹⁾ Max. case temperature $T_C = 150^\circ\text{C}$ – Max. Gehäusetemperatur $T_C = 150$

Characteristics

Kennwerte

Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 60\text{ A}$	V_F	$< 1.1\text{ V}$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 100\text{ }\mu\text{A}$
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	$< 0.6\text{ K/W}$



Replacements / Ersatztypen			
New - Neu	Old - Alt	New - Neu	Old - Alt
BYP 60K05	BYP70/60	BYP 60A05	BYP75/60
BYP 60K1	BYP71/60	BYP 60A1	BYP76/60
BYP 60K2	BYP72/60	BYP 60A2	BYP77/60
BYP 60K3	BYP73/60	BYP 60A3	BYP78/60
BYP 60K4	BYP74/60	BYP 60A4	BYP79/60